

Air Quality and Dust Monitoring Monthly Report – March 2020

London Borough of Hillingdon



SKANSKA



Department for Transport

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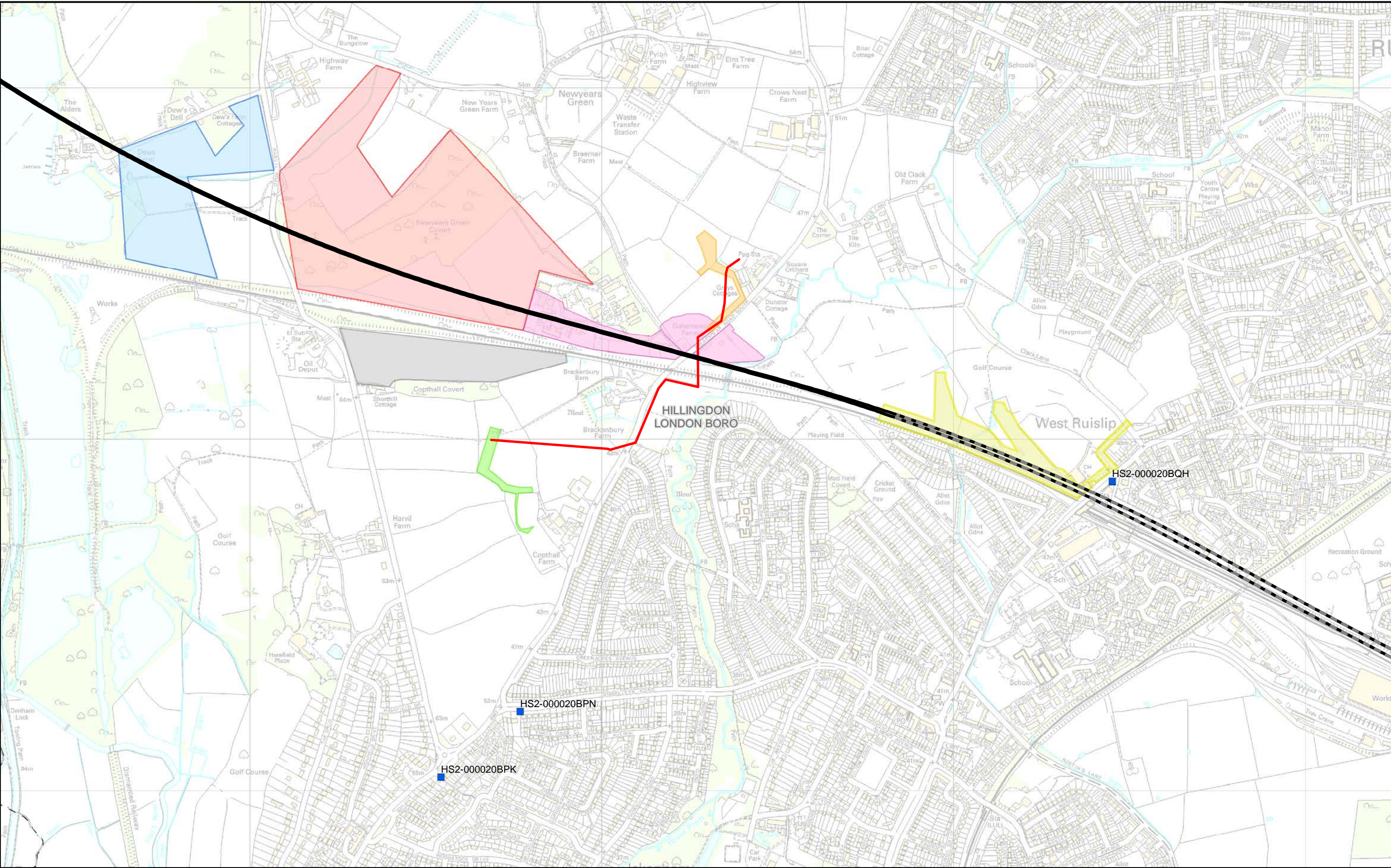
Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality monitoring undertaken in the London Borough of Hillingdon (LBH) during February 2020.
- 1.1.2 Figure 1 to Figure 4 in Appendix A indicate the current worksites, together with air quality monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced within the LBH during May 2018 and are expected to be completed by March 2020. The next phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current worksites, as presented in Appendix A, Figure 1 to Figure 4, include:
- 18' and 48' gas pipeline diversions, advanced planting and habitat creation;
 - Merck Sharpe Dohme, demolition works and new access road construction, completed;
 - Utility diversions at Breakspear Road South;
 - Utility diversions at Copthall North and South; and
 - West Ruislip Portal site mobilisation and site compound set up, haul road construction and vegetation clearance.
- 1.1.5 Two (2) dust monitors had previously been installed at the boundary of the MSD worksite during demolition works which are now complete. Both monitors have now been removed, the last one at the end of February 2020. These monitors are to be reinstalled for the future Copthall Cutting and Gatemead Embankment works. This site has returned a medium dust risk rating. As there are no current active worksites located within the RBKC, no dust monitoring has been carried out during this monitoring period (March 2020).
- 1.1.6 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at eleven (11) locations in February 2020, around highways within the LBH as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.7 Diffusion tube monitoring results are provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.8 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2020 running mean.

- 1.1.9 There were no (0) complaints received, relating to air quality, during this monitoring period (March 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Current monitoring locations within the LBH



Legend

- Route in tunnel
- Route on surface
- Diffusion tube monitoring location
- Trunk Main Diversion Route
- West Ruislip Portal
- Copthall North worksite
- Copthall South worksite
- 18" and 48" gas pipeline diversions
- Merck Sharpe Dhorne worksite
- Utility Diversion worksite south
- Utility Diversion worksite north

Figure Number

Figure Name

Worksites and Monitoring locations in LBH
(sheet 1)

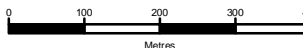
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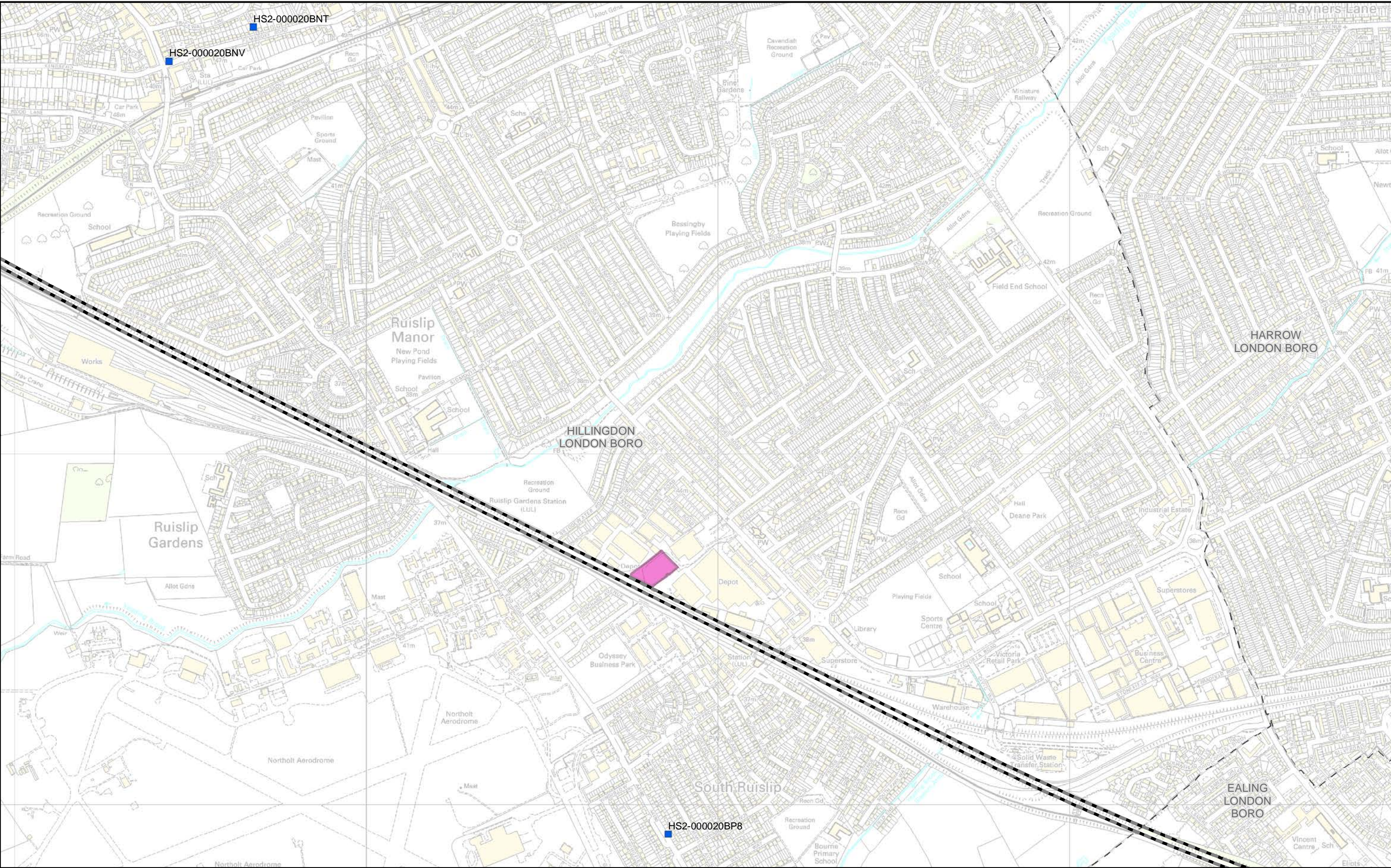


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Legend

- Route in tunnel
- Route on surface
- Diffusion tube monitoring location
- South Ruislip Vent Shaft


Figure Number
Figure Name
Worksites and Monitoring locations in LBH (sheet 2)
London Borough of Hillingdon



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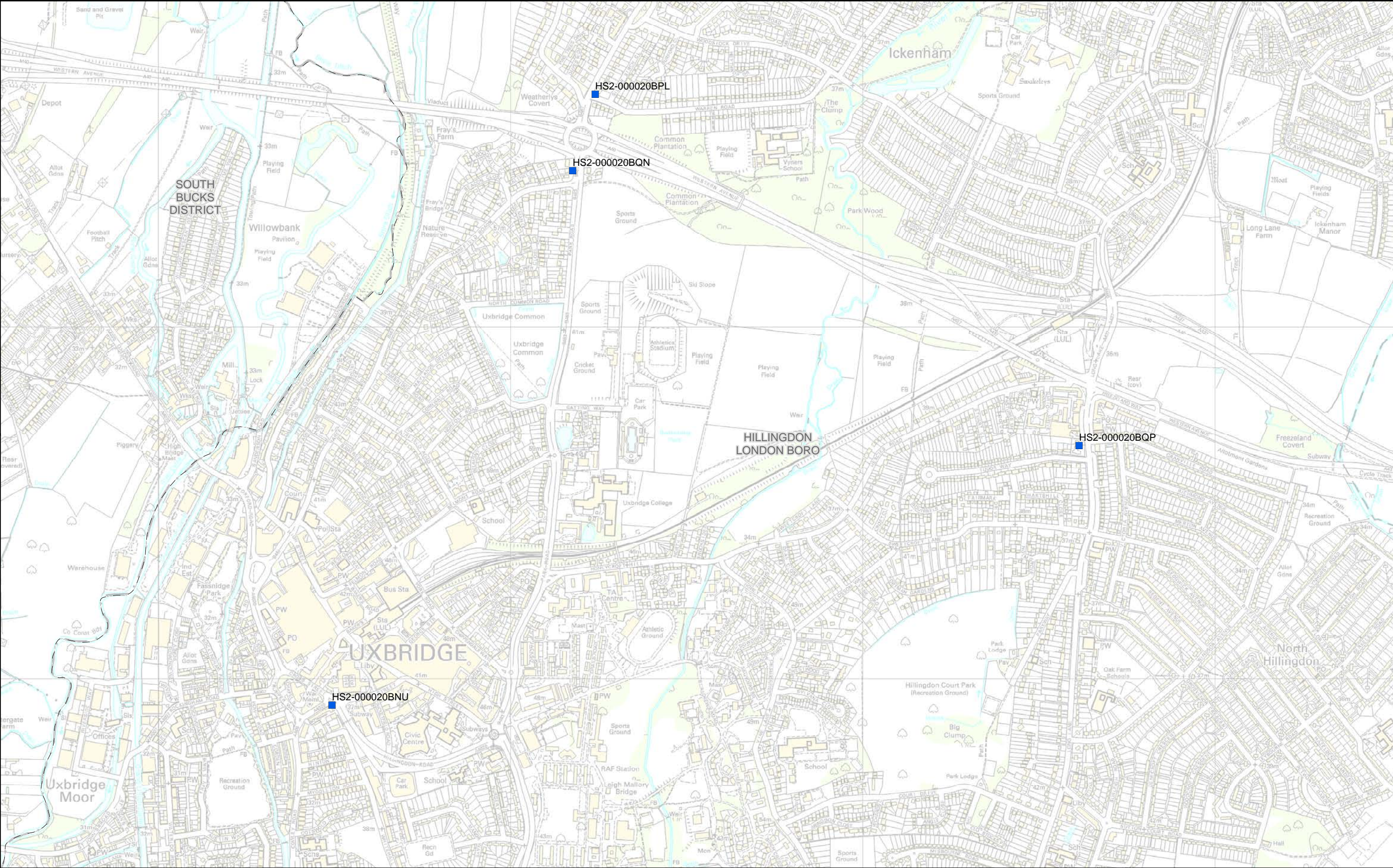


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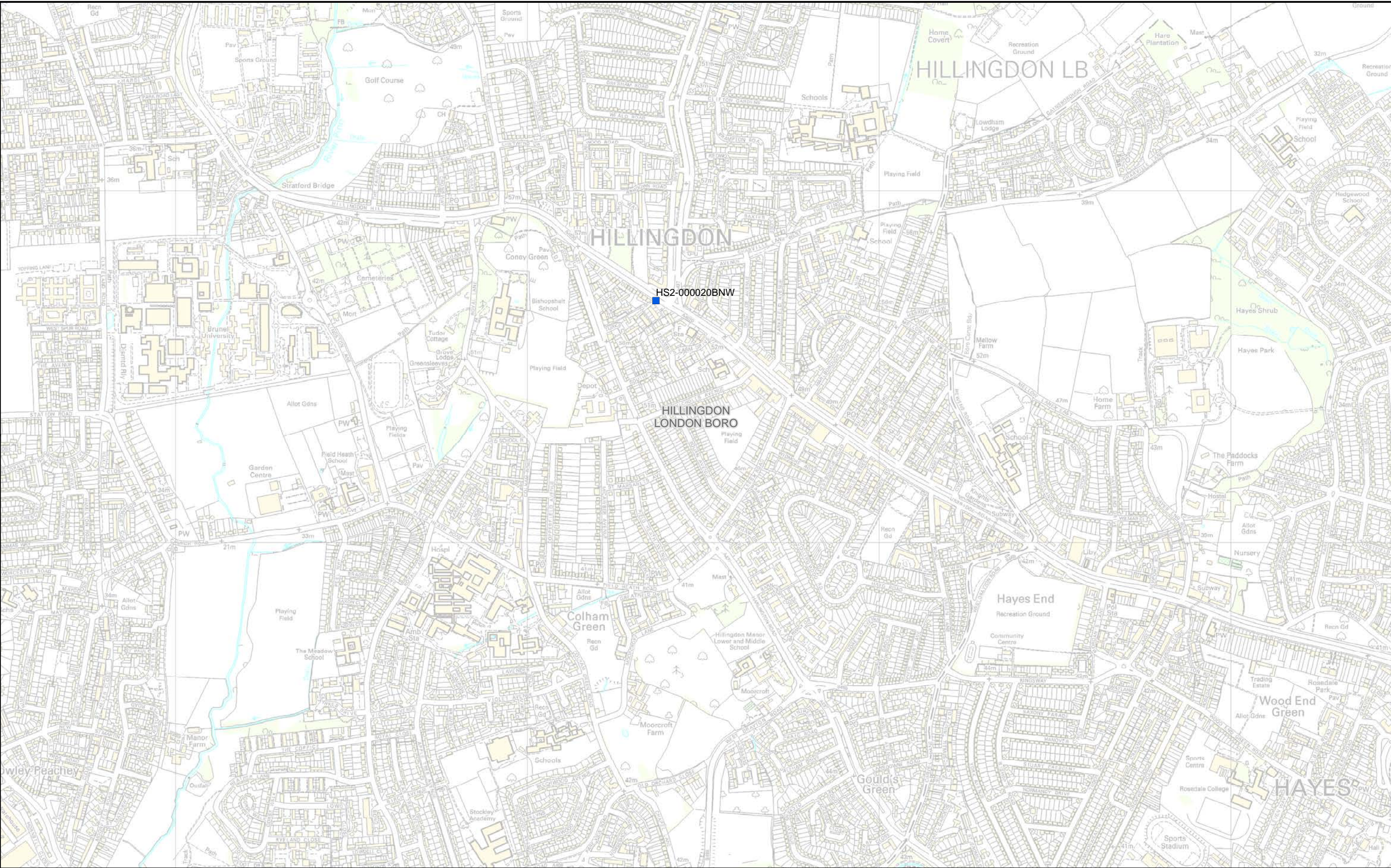


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Legend - - - Route in tunnel — Route on surface ■ Diffusion tube monitoring location	Figure Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Scale at A3: 10,000 0 100 200 300 400 Metres
	Figure Name Worksites and Monitoring locations in LBH (sheet 3)	
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- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location

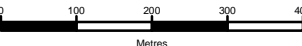
Figure Number
Figure Name
Worksites and Monitoring locations in LBH (sheet 4)
London Borough of Hillingdon



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Appendix B – Air Quality Monitoring Results

Table 1: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2020 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BNT	Lamp post on Pembroke Road	509678, 187214	35	26											31
HS2-000020BNU	Cowley Road sign post at junction with Hillingdon Road	505492, 183926	49	46											48
HS2-000020BNV	High Street sign post at junction with Pembroke Road	509439, 187117	45	33											39
HS2-000020BNW	Signpost on A4020 Uxbridge Road at junction with Long Lane	507365, 182687	43	32											37
HS2-000020BPK	Lamp post in crescent off Swakeleys Road	506542, 186037	40	34											37
HS2-000020BPL	Warren Road sign post on corner of Swakeleys Road and Warren Road	506240, 185660	51	40											46
HS2-000020BPN	Lamp post on B467	506767, 186224	41	30											36
HS2-000020BQH	Lamp post on High Road Ickenham	508451, 186879	44	37											40

¹ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual mean presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BQN	Lamp post on Park Road	506176, 185444	47	34											40
HS2-000020BQP	Sign post on Long Lane	507614, 184663	45	33											39
HS2-000020BP8	Triplicate site at South Ruislip roadside automatic monitoring station	510858, 184916	39	32											36